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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-22-29 **Date: 27/02/2023**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts in ward No-05 Yelahanka New Town Sub Division.

Agency : SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-02-23

Customer ID : Culvert Ramp Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Ramp Concrete	M25	20/02/2023	27/02/2023	150.17 X 151.00 X 149.95	22675	8.536	539.8	23.8	23.0
2	Culvert Ramp Concrete	M25	20/02/2023	27/02/2023	149.65 X 150.25 X 149.53	22486	8.136	509.4	22.7	
3	Culvert Ramp Concrete	M25	20/02/2023	27/02/2023	149.24 X 149.96 X 150.61	22380	8.762	504.1	22.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-07-22-29**	**Date: 20/03/2023**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of culverts in ward No-05 Yelahanka New Town Sub Division.	
Agency	:	SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22-02-23	
Customer ID	:	Culvert Ramp Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M25 / 28 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	20/03/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Ramp Concrete	M25	20/02/2023	20/03/2023	150.63 X 151.07 X 149.66	22755	8.550	616.2	27.1	27.5
2	Culvert Ramp Concrete	M25	20/02/2023	20/03/2023	150.69 X 149.36 X 151.44	22508	8.833	600.6	26.7	
3	Culvert Ramp Concrete	M25	20/02/2023	20/03/2023	150.89 X 150.38 X 150.41	22692	8.555	649.9	28.6	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2023-07-22-29 **Date: 09-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward No-05 Yelahanka New Town Sub Division.
Agency	:	SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-02-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-07-22-29** **Date: 08-02-23**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward No-05 Yelahanka New Town Sub Division.
Agency	:	SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010
Customer Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-02-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-07-22-29** **Date: 08-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

Note:

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CIVIL Pro BANGALORE Signed Date

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-07-22-29** **Date: 08-02-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-07-22-29 **Date: 20-02-23**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts in ward No-05 Yelahanka New Town Sub Division.

Agency : SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-23

Sample Type /Size : Precast Cover Slab - 230mm thickness

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 14/02/2023

Grade of Slab : M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.36	230.49	2.826	4699	125.4	26.7	24.8	31.0
2	Cover Slab-2	77.25	230.51	2.856	4686	126.4	27.0	25.1	31.4
3	Cover Slab-3	77.47	230.48	2.818	4713	124.9	26.5	24.6	30.8

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2023-07-22-29 **Date: 20-02-23**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts in ward No-05 Yelahanka New Town Sub Division.

Agency : SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-02-23

Sample Type /Size : Precast Cover Slab - 230mm thickness

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 14/02/2023

Grade of Slab : M25

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.36	230.49	2.826	4699	125.4	26.7	24.8	31.0
2	Cover Slab-2	77.25	230.51	2.856	4686	126.4	27.0	25.1	31.4
3	Cover Slab-3	77.47	230.48	2.818	4713	124.9	26.5	24.6	30.8

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/02/2023

Lab ID	:	CP-2023-07-22-29
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward No-05 Yelahanka New Town Sub Division.
Agency	:	SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-02-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/02/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M25	13/02/2023	20/02/2023	151.59 X 151.21 X 150.11	22922	8.950	540.1	23.6	22.7
2	Culvert Bottom Raft Concrete	M25	13/02/2023	20/02/2023	149.20 X 149.92 X 151.03	22368	8.860	501.5	22.4	
3	Culvert Bottom Raft Concrete	M25	13/02/2023	20/02/2023	149.70 X 149.44 X 149.45	22372	8.985	492.3	22.0	

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2023-07-22-29 **Date: 13/03/2023**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of culverts in ward No-05 Yelahanka New Town Sub Division.

Agency : SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010

Customer's Reference : BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-02-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft Concrete	M25	13/02/2023	13/03/2023	149.96 X 150.22 X 151.60	22527	8.434	612.7	27.2	27.5
2	Culvert Bottom Raft Concrete	M25	13/02/2023	13/03/2023	151.98 X 151.98 X 151.69	23098	8.955	622.6	27.0	
3	Culvert Bottom Raft Concrete	M25	13/02/2023	13/03/2023	150.68 X 149.75 X 150.73	22564	8.169	638.1	28.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-07-22-29	Date: 16/03/2023
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of culverts in ward No-05 Yelahanka New Town Sub Division.	
Agency	:	SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010	
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	20-02-23	
Customer ID	:	Culvert Side Wall Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M25 / 28 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	16/03/2023	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M25	16/02/2023	16/03/2023	151.85 X 150.81 X 149.48	22899	8.496	631.6	27.6	27.5
2	Culvert Side Wall Concrete	M25	16/02/2023	16/03/2023	149.26 X 149.58 X 149.04	22326	8.369	581.9	26.1	
3	Culvert Side Wall Concrete	M25	16/02/2023	16/03/2023	150.76 X 149.54 X 149.99	22545	8.589	651.6	28.9	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

QC ABSTRACT

NAME OF WORK: Construction of culverts in ward No-05 Yelahanka New Town Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	RCC(M25)	Compressive Strength(7days and 28days)	5 sets /51-100 cum	72.04	10	10

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೮

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 07-03-23

Lab ID	:	**CP-2023-07-22-29**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of culverts in ward No-05 Yelahanka New Town Sub Division.
Agency	:	SRI. R RANGANATH, No-37, 19th Cross, 1st N Block, Rajajinagara, Mahalakshmipuram Banagalore-560010
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-12/W.O/92/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	07-02-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-10

CIVIL Pro BANGALORE Sig..... Date.....

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****